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Z JUL 78

FROM HQ WPAFB OH/TQTR

TO: SSG ACSI DA

INFO HQ USAF WASH DC/INA

S E C R E T

SUBJECT: SPECIAL ANALYSIS STUDY (U)

REFERENCE: ACSI MSG, DTD 262015Z JUN 78

1. (U) PASS TO MAJ STONER (ACSI): LTC M BLOOM (USAF/INYS)
2. (C) THIS MESSAGE IS IN RESPONSE TO COMMENTS REQUESTED IN THE REFERENCED MESSAGE RELATING TO PARAPHYSICS TOPICS. REPLY HAS BEEN LIMITED TO THOSE QUESTIONS RELEVANT TO FTD'S PROGRAM WITH THE STANFORD RESEARCH INSTITUTE (SRI).
3. (S) PAST, PRESENT AND FUTURE PLANS: ..

A. FTD'S PREVIOUS EFFORT IN THIS AREA OF INVESTIGATION HAS BEEN PREVIOUSLY SUPPLIED IN THE FY77 FINAL REPORT TITLED ADVANCED THREAT TECHNIQUE ASSESSMENT (SRI 7-4375). A FINAL REPORT ON RECENT WORK WILL BE AVAILABLE BY THE END OF JULY AND WILL BE PROVIDED AT THAT TIME.

B. AT PRESENT, FTD PLANS TO PURSUE THOSE BASIC OBJECTIVES OUTLINED IN THE REFERENCED WORK STATEMENT (PARA 4). MAIN ORIENTATION IS TO EVALUATE OR SIMULATE USSR RESEARCH ACHIEVEMENTS (OR CLAIMS), AND TO EXAMINE FEASIBILITY OF COMMUNICATION AND REMOTE VIEWING POTENTIAL. THERE IS NO INTENT IN THE FTD PROGRAM

TO PURSUE RESEARCH ~~ON THEORETICAL ISSUES~~, NOR TO ATTEMPT DEVELOPMENT OF SPECIFIC APPLICATIONS. FTD'S CURRENT CONTRACT WITH THE STANFORD RESEARCH INSTITUTE EXTENDS THROUGH MAY 1979.

C. FTD HAS SUPPORTED THESE BASIC INVESTIGATIONS WITH THE STANFORD RESEARCH INSTITUTE (SRI) SINCE 1976. SRI'S WORK TO DATE HAS GREATLY BENEFITED FTD'S ASSESSMENT OF WARSAW PACT RESEARCH IN THIS AREA, BOTH IN EVALUATING ASPECTS OF FOREIGN RESEARCH DATA, AND IN PROVIDING INSIGHT INTO THIS FIELD IN GENERAL. THERE MAY NOT BE A CLEAR NEED FOR FTD TO CONTINUE SUCH SUPPORT TO SRI IN THE FUTURE. HOWEVER, FTD MAY ELECT TO SUPPORT OTHER ASPECTS OF PARAPHYSICS INVESTIGATIONS WITH OTHER LABORATORIES. SUCH SUPPORT COULD POTENTIALLY BE TO EVALUATE ENERGETICS-TYPE ^{phenomena} ~~OBSERVANCE~~ AND RELATED PHYSIOLOGICAL ISSUES (EFFECT OF MAGNETIC FIELDS, OR LOW FREQUENCY FIELDS, ETC.) WHERE ASSISTANCE IN EVALUATING THE USSR RESEARCH WOULD BE REQUIRED.

4. (S) WORK STATEMENT: FTD'S WORK STATEMENT TO SRI, TITLED "ADVANCED TECHNOLOGY ASSESSMENT, IS SUMMARIZED AS FOLLOWS:

A. PURPOSE:

B. BACKGROUND:

C. ANALYTICAL APPROACH:

EXHIBIT "A"

Purchase Request Nr. _____

1.0 (U) TITLE:

Advanced Technology Assessment

2.0 (S) PURPOSE:

To provide a basis for assessing application potential of an advanced technology that is assessed to be under development in the USSR. This study would assist in FTD's evaluation of relevant intelligence data, would help identify key development trends and technical parameters, and would help in assessing feasibility of particular advanced threat related applications.

3.0 (S) BACKGROUND:

A continuing technical intelligence responsibility for FTD is to provide intelligence consumers, and US R/D consumers, with the highest quality assessment of USSR capabilities in various threat areas, especially in advanced technologies that could eventually lead to future technological surprise. These potential threats could be based on conventional technology with unique applications, or on totally new or novel techniques that could be at the frontiers of technological art-state. This study would fill a critical gap in the understanding and assessment of application feasibility of a potential advanced threat. This effort would directly support FTD's continuing evaluation for a new DIA threat study (Paraphysics R/D-Warsaw Pact), and would support certain advanced communication and advanced sensor assessments in general.

C 4.0 (S) ANALYTICAL APPROACH:

(1) 4.1 The contractor will develop theoretical models, perform appropriate technical analysis, and provide capability assessments based on appropriate investigation and experimental procedures.

(2) 4.2 Contractor assessments will emphasize the particular advanced paraphysics technology having military potential. The assessment will examine numerous variables that have an influence on biases, reliability and accuracy. Basic investigations in this general topic will address advanced communication potential, and advanced remote sensor potential. The contractor shall develop an appropriate theoretical basis that provides insight on possible countermeasures. Theoretical investigations shall be directed toward resolution of probable paraphysics transmission modes. Investigations involving use of shielded facilities should assist in evaluating electromagnetic aspects (e.g., in the ELF region). Other investigations based on holographic models shall also be considered.

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3. 4.3 Study findings that indicate feasibility of various potential applications, or that provide insight into theoretical models, should be made available to FTD or soon as possible. Evaluation of results from application investigations will be performed by FTD according to mutually acceptable protocol and will be included as part of the final report. The contractor will also develop appropriate statistical methods for assessing degree of success of such experimental investigations. These methodologies would also be applicable to assessing similar investigations reported in the foreign literature.

4. 4.4 All significant details of contractor study scope, planning, proposed analyses technique, proposed evaluation protocol and procedures, and personnel involved will be evaluated by FTD. Should any unforeseen deviation occur, FTD will be notified immediately. Changes in work priority may be directed by FTD at any time during the contractual year should such action be considered necessary. Additional details on study objectives, procedures, and other details are included in a separate detailed task work statement.

5.0 CLEARANCE REQUIREMENTS:

5.1 Personnel: Top Secret.

5.2 Storage Capability: Secret.

6.0 REPORTS REQUIRED:

6.1 Outline of proposed study.

6.2 Preliminary draft of study.

6.3 Draft copy of study.

6.4 Final report. SG1J

7.0 FTD TECHNICAL MONITOR:



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5. (S) IN-HOUSE RESEARCH

A. THERE COULD BE SEVERAL ADVANTAGES TO PURSUING IN-HOUSE RESEARCH, DEPENDING ON ITS SPECIFIC ORIENTATION. IT MAY BE POSSIBLE SOME GOVERNMENT FACILITIES HAVE EQUIPMENT WHICH IS APPROPRIATE FOR EVALUATING AND IDENTIFYING PHYSIOLOGICAL *parameters that might correlate to psychoenergetics* FUNCTIONING; OR THAT SOME FACILITIES HAVE EQUIPMENT SUITABLE FOR RESOLVING (IN PART) CERTAIN THEORETICAL ISSUES. LABORATORIES WITH EEG EQUIPMENT (OR OTHER PHYSIOLOGICAL INSTRUMENTS) AND ELECTROMAGNETICALLY SHIELDED ROOMS, COULD POTENTIALLY ASSIST IN RESEARCH ON SOME ISSUES. IN ADDITION, LABORATORIES WITH SIMILAR EQUIPMENT MIGHT EXIST IN THE VARIOUS SERVICES, WHICH COULD FACILITATE EXPERIMENTS WHERE INFLUENCE OF DISTANCE IS TO BE EXAMINED. THERE ARE NUMEROUS POSSIBILITIES; THESE ARE BUT A FEW EXAMPLES.

B. ANOTHER ADVANTAGE OF IN-HOUSE RESEARCH WOULD BE IN PURSUIT OF PARTICULAR APPLICATIONS AND IN SELECTION OF SUBJECTS. IT MAY BE THAT PEOPLE WHO CAN PERFORM WELL IN CERTAIN PSYCHOENERGETIC TASKS (SUBJECTS) ARE ALREADY EMPLOYED WITHIN GOVERNMENT FACILITIES. DRAWING ON SUCH AVAILABLE RESOURCES COULD SIMPLIFY SUBJECT RECRUITMENT AND ALSO ENHANCE SECURITY ASPECTS, ESPECIALLY IF THE SUBJECTS HAVE SOME LEVEL OF CLEARANCE.

C. IN ADDITION, PURSUIT OF CERTAIN TYPES OF APPLICATIONS MIGHT BEST BE PERFORMED IN-HOUSE BY A GOVERNMENT AGENCY. COMMUNICATION

MODES, FOR EXAMPLE, MAY REQUIRE A COMMITMENT WHERE THE SAME SUBJECTS WORK TOGETHER FOR A LONG TIME PERIOD. ALSO, CERTAIN APPLICATIONS, INVOLVING INFORMATION ACCESS APPLICATIONS, ALSO APPEAR TO REQUIRE A LONG-TERM COMMITMENT. THIS MAY BE DIFFICULT TO ACHIEVE (AND CONTROL) VIA EXTERNAL SOURCES.

D. HOWEVER, DUE TO THE SENSATIONAL NATURE OF THIS AREA OF RESEARCH THERE ARE ALSO SOME DISADVANTAGES. CONSIDERABLE EFFORT WOULD BE REQUIRED IN KEEPING EVEN THE KNOWLEDGE ABOUT POTENTIAL IN-HOUSE ACTIVITY UNDER TIGHT CONTROL. THIS WOULD ALSO BE TRUE FOR ANY EXTENSIVE EXTERNAL RESEARCH. ONE APPROACH MIGHT BE TO OPENLY ACKNOWLEDGE THAT SOME OF THIS RESEARCH IS BEING PURSUED. THIS RESEARCH COULD CERTAINLY BE QUALIFIED AND PRESENTED IN THE CONTEXT ^{of} EXPLOITATORY OR BASIC RESEARCH, AND IN TIME ITS SENSATIONAL TREATMENT WOULD VERY LIKELY LESSEN.

E. IN SUMMATION, IT APPEARS ASPECTS OF THIS RESEARCH MIGHT BE AMENABLE FOR IN-HOUSE INVESTIGATIONS. IT ALSO APPEARS THAT A JOINT-SERVICE OR DOD-WIDE EFFORT COULD BE ULTIMATELY INVOLVED.

6. (S) PROPOSED RESEARCH APPROACH

A. PARTICULAR RESEARCH APPROACHES IN PSYCHOENERGETICS WOULD DEPEND UPON THE MAIN OBJECTIVES. THERE ARE AT LEAST THREE BASIC RESEARCH DIRECTIONS; THAT WHICH PURSUES APPLICATIONS; THAT DIRECTED TOWARD UNDERSTANDING OF THE ^{of} PHYSICAL BASIS FOR THE PHENOMENA; AND THAT ORIENTED TOWARD PHYSIOLOGICAL AND PSYCHOLOGICAL ISSUES. ALL THESE OVERLAP, HOWEVER, AND CANNOT BE READILY SEPARATED. RESOURCES

OF THEORETICAL AND PSYCHOLOGICAL ISSUES COULD ENHANCE APPLICATION (I.E., IMPROVE RELIABILITY, REPEATABILITY); PURSUIT OF SPECIFIC APPLICATIONS COULD ALSO ADD INSIGHT ON SOME THEORETICAL ISSUES. ~~HOWEVER~~, IT MAY BE ^{not} A WIDE VARIETY OF EXPERIMENTS NEED TO BE CONDUCTED IN ORDER TO EXAMINE AS MANY VARIABLES AS POSSIBLE. IT ALSO APPEARS BOTH THE INFORMATIONAL ASPECTS AND THE ENERGETIC ASPECTS BE PURSUED, SINCE THE UNDERLYING PRINCIPLES MAY BE THE SAME FOR BOTH TYPES OF PHENOMENA.

B. REGARDLESS OF ~~SPECIFIC~~ RESEARCH DIRECTIONS, SPECIFIC RESEARCH SHOULD BE BASED ON SOUND SCIENTIFIC METHODOLOGIES. ~~IT MAY BE~~ APPROPRIATE EVALUATION METHODS ARE ALSO REQUIRED SO THAT RESULTS OF THIS RESEARCH CAN BE EVALUATED ~~AND PRESENTED~~ PROPERLY.

C. THE MOST SIGNIFICANT REQUIREMENT OF THIS RESEARCH IS TO ESTABLISH A POOL OF SUBJECTS THAT ARE CONSISTANT HIGH PERFORMERS AT A VARIETY OF PARANORMAL TASKS. OTHERWISE, MOST EXPERIMENTS WOULD YIELD RESULTS NOT SIGNIFICANTLY GREATER THAN CHANCE, AND UNDERLYING PRINCIPLES COULD NOT BE IDENTIFIED. WITH HIGH PERFORMING SUBJECTS, EFFECTS OF MANY TEST VARIABLES (PHYSICAL, PSYCHOLOGICAL, ETC) COULD BE STUDIED IN A CONSISTANT MANNER. METHODS FOR TRAINING AND ENHANCING PERFORMANCE SHOULD ALSO BE INVESTIGATED SINCE THIS SHOULD LEAD TO BETTER UNDERSTANDING OF THE PSYCHOLOGICAL ASPECTS.

D. THERE ARE MANY THEORETICAL ISSUES THAT COULD BE EXAMINED, AND NUMEROUS EXPERIMENTS COULD BE CONDUCTED THAT MIGHT INDICATE THE PHYSICAL BASIS OF THIS PHENOMENA. EXPERIMENTS FOR RESOLVING ^{if} THE PHENOMENA IS ELECTROMAGNETIC IN NATURE COULD INVOLVE SUBMARINE OR SPACE PLATFORMS, OR EXPERIMENTS CONDUCTED IN PRESENCE OF APPROPRIATE NOISE. EXPERIMENTS TO DETERMINE HOW SMALL TARGETS CAN BE ALSO IMPACT ^{TS} ON THE ELECTROMAGNETICS ISSUE (DATA RATE OR RESOLUTION). ~~AND MAY EVEN SUGGEST MORE FUNDAMENTAL ISSUES (HOLOGRAPHIC CONCEPTS).~~ ATTEMPTS TO INFLUENCE SENSITIVE EQUIPMENT (FILM, LIQUID CRYSTALS, MAGNETOMETERS, OTHER) COULD ALSO HELP IDENTIFY BASIC MECHANISMS (DIRECT OR INDIRECT). EXPERIMENTS TO TEST GRAVITATIONAL MODELS, NEUTRION MODELS, ^{NO} ~~OR~~ ^{Holographic and concepts, or} VARIOUS QUANTUM MECHANICAL MODELS COULD ALSO BE ^{performed.} ~~CONSTRUCTED.~~

E. OTHER FACTORS OF IMPORTANCE ARE EFFECT OF TARGET SIZE AND DISTANCE FROM THE SUBJECT. SUCH EXPERIMENTS COULD INDICATE ACCURACY LIMITS, IF ANY. ANOTHER ISSUE TO RESOLVE IS THE ROLE OF OTHER PEOPLE IN AN EXPERIMENTAL SETTING, ~~AND~~ PARTICULARLY, ~~PRECOGNITION~~ ^{re} ~~OF THE EFFECT~~ WHEN INTENDED TARGET MATERIAL IS NOT KNOWN BY ANYONE. THIS LATTER CASE APPLIES TO HIDDEN TARGETS OR POSSIBLY TO TARGETS OUT OF PROPER TIME SEQUENCE ^{ie.} (~~EX~~; PRECOGNITION).

F. OTHER SUGGESTIONS FOR RESEARCH HAVE ALREADY BEEN PROVIDED TO YOUR OFFICE (FTD MSG DTD 051644Z ^J JUN 78). ADDITIONAL VIEWS CAN BE

PROVIDED IF DESIRED.

7. (S) DEMONSTRATION FOR DR LABERGE. IT IS HIGHLY RECOMMENDED THAT DR LABERGE OBSERVE A DEMONSTRATION OF A REMOTE VIEWING EXPERIMENT. THIS WILL ACCUAIN^T HIM WITH EXPERIMENTAL PROTOC^AL AND PROVIDE AN APPRECIATION FOR HOW THIS MODE IS PRECEIVED BY THE SUBJECTS. SUGGEST SEVERAL EXPERIMENTS INVOLVING THOSE THE SUBJECT IS COMFORTABLE WITH, AS WELL AS SOME DEFINED AND CONTROLLED BY DR LABERGE. THESE COULD INVOLVE EXPERIMENTS WITH DR LABER^{GE}S IN THE WASHINGTON AREA AND SUBJECTS ELSEWHERE.

8. (S) EXPERIMENTS TO DETERMINE PRESENCE OR ABSENCE OR MISSILES IN SILOS.

A. THIS TYPE OF EXPERIMENT IS SIMPLER IN PRINCIPLE THAN EXPERIMENTS WHERE EXTENSIVE DETAIL ^{and} ~~AD~~ RELATIVE SPATIAL ^{al} ~~REL~~ RELATIONSHIPS ARE DESIRED. IDENTIFYING PRESENCE OR ABSENCE OR TARGET AREA ELEMENTS HAS ^{already} ~~BEEN~~ EXAMINED IN THE FTD PROGRAM. IN THESE EXPERIMENTS, THE OBJECTIVE WAS TO EVALUTE FEASIBILITY OF USING REMOTE VIEWING IN A BASIC COMMUNICATION MODE, WITH BASIC MESSAGES PRE-RESABLISHED FOR EACH TARGET AREA CATAGORY (OR DICHOTOMY). RESULTS WERE ENCOURAGING AND SUGGESTED THIS COULD BE A VIABLE APPLICATION. ANOTHER SERIES OF EXPERIMENTS EXAMINED FEASIBILITY OF DETERMINING PRESENCE OR ABSENCE OF "EVENTS". A MINUTEMAN STAGE I STATIC-TEST EVENT WAS THE DESIRED TARGET. RESULTS WERE ALSO ENCOURAGING IN THAT AN EVENT WAS SENSED AT THE APPROPRIATE TIME, ALTHOUGH THE SPECIFIC

NATURE OF THE EVENT COULD NOT BE DETERMINED BY THE SUBJECT.

B. IF THEREFORE APPEARS THAT EXPERIMENTS TO DETERMINE PRESENCE OR ABSENCE OF MISSILES IN A SILO, FOR EXAMPLE, COULD BE ^{feasible} ~~ATTEMPTED~~. HOWEVER, THE METHOD USED FOR LOCATING THE INTENDED TARGET AREA MIGHT ^{pose} ~~PSOE~~ SOME DIFFICULTY. PRELIMINARY EXPERIMENTS, USING SIMILAR ACCESSABLE TARGETS (EMPTY OR FULL FUEL CONTAINERS, ETC) SHOULD BE PURSUED TO EVALUATE BASIC POTENTIAL OF THIS APPLICATION OBJECTIVE. SUBSEQUENT EXPERIMENTS TO RESOLVE THE LOCATOR ^{ON} ~~OR~~ PROBLEM FOR ACTUAL TARGETS COULD THEN BE ATTEMPTED, PERHAPS USING ~~ACTUAL~~ US SILOS AS TARGETS. THE USE OF AERIAL PHOTOS, OR COORDINATES, MIGHT BE METHODS EMPLOYED FOR TARGETING ON REMOTE SILOS.

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